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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/666,247	09/22/2003	Robert Arwood	1303 US	9507
20346	7590 11/15/2005		EXAMINER	
KEY SAFET	Y SYSTEMS, INC.		ROSENBERO	G, LAURA B
PATENT DEPARTMENT 5300 ALLEN K BREED HIGHWAY LAKELAND, FL 33811-1130			ART UNIT	PAPER NUMBER
		3616		

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/666,247	ARWOOD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Laura B. Rosenberg	3616				
The MAILING DATE of this communication app	I					
Period for Reply		·				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 06 Section 2005	eptember 2005.					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1.2,7,8,10-13 and 18-21 is/are pendin 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1.2,7,8,10-13 and 18-21 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplished any accomplished any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example.	epted or b) objected to by the find drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Application/Control Number: 10/666,247 Page 2

Art Unit: 3616

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 16 August 2005, in which claims 1, 12 and 20 were amended, has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 7, 8, 10-13, and 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keeler et al. (5,344,184) in view of Schneider (6,431,583). Keeler et al. disclose a knee bolster assembly (#10) for a vehicle comprising:
- Air bag (#42) having an inflated condition (best seen in figures 2, 4) and a "deflated" condition (best seen in figures 1, 3)
- Air bag inflator (#44)
- Knee contact plate (including #36) located in front of the airbag (best seen in figures
 3, 4) and able to be moved by inflation of the airbag (via thrust developed by the gas

Art Unit: 3616

escaping from the inflator and into the airbag; column 6, lines 1-9), the knee contact plate having an actuated position (best seen in figures 2, 4) and an unactuated position (best seen in figures 1, 3)

- Guide structure (#110, 116) attached to the knee contact plate (via #124, 126, 128)
 and able to direct the knee contact plate along a generally liner path from the
 unactuated position to the actuated position (best seen in figures 1-5)
- Guide structure directs the knee contact plate to an anticipated location of a knee of a vehicle occupant (best seen in figures 2, 4)
- Guide structure comprises a first member (including #122, 152) disposed within a second member (including #150), the first member able to extend from the unactuated position to the actuated position along the generally linear path relative to the second member (best seen in figure 5)
- First member comprises a guide "pin" (including #122, 152) having a first tapered surface (shoulders of #152 that face upwards in figure 5)
- Second member comprises a guide tube (including #150) having a second tapered surface (near #153)
- First tapered surface mating with the second tapered surface in the actuated position (best seen in dotted lines in figure 5), which stops the movement of the knee bolster (column 5)
- Air bag housing (including #20, 96, 98,100, 102)
- Air bag has a rear area disposed closer to the air bag housing when inflated and a front area where the knee contact plate is disposed (best seen in figures 2, 4)

Application/Control Number: 10/666,247

Art Unit: 3616

- Knee contact plate comprises a cushion (#36; column 3, line 40)
- Guide structure is able to expand and is able to retract between the actuated position and the unactuated position (best seen in figures 1-5)

Keeler et al. do not specifically disclose a tether attaching the air bag to the knee contact plate.

Schneider teaches a knee bolster assembly (#10) for a vehicle comprising:

- Air bag (#22) having an inflated condition (best seen in figure 7) and a "deflated" condition (best seen in figure 6)
- Air bag inflator (#54)
- Air bag housing (#26)
- Knee contact plate (#28, 29) having an actuated position (best seen in figure 7)
 and an unactuated position (best seen in figure 6)
- Tether (including #30) attaching airbag to knee contact plate
- Guide structure (including #48, 50, 52) attached to the knee contact plate (at #60 and able to direct the knee contact plate along a generally liner path from the unactuated position to the actuated position (column 8, lines 7-16; best seen in figure 7)
- Guide structure comprises a first member (including #48, 50 within #60) and a second member (including #48, 50 within #61), the first member able to extend from the unactuated position to the actuated position along the generally linear path relative to the second member (best seen in figures 6, 7)

Application/Control Number: 10/666,247

Art Unit: 3616

 Air bag has a rear area disposed closer to the air bag housing when inflated and a front area where the knee contact plate is disposed (best seen in figure 7)

 Guide structure directs the knee contact plate to an anticipated location of a knee (part of #13) of a vehicle occupant (#12)

It would have been obvious to one skilled in the art at the time that the invention was made to modify the knee bolster assembly of Keeler et al. such that it comprised a tether attaching the air bag to the knee contact plate as claimed in view of the teachings of Schneider so as to position the knee contact plate in the correct deployed position and to prevent the knee contact plate from being propelled into the passenger compartment by the inflating air bag (Schneider: column 6).

The method of claim 20 reads on the apparatus described above.

Response to Arguments

4. Applicant's arguments filed 16 August 2005 have been fully considered but they are not persuasive.

In regards to the top of page 6, Keeler discloses a guide structure comprising a first member (including #122, 152) disposed within a second member (including #150), the first member able to extend from the unactuated position to the actuated position along the generally linear path relative to the second member (best seen in figure 5). The first member comprises a guide "pin" (including #122, 152) having a "first tapered surface" (shoulders of #152 that face upwards in figure 5), and the second member comprises a guide tube (including #150) having a "second tapered surface" (near #153).

The first tapered surface mates with the second tapered surface in the actuated position (best seen in dotted lines in figure 5), which stops the movement of the knee bolster (column 5). For further clarification, when in the actuated position, the piston head and arm (#152, 122) are moved toward a fully extended position (as seen in dotted lines in figure 5), in which the upwardly facing shoulders of the piston head and the downwardly facing edges of the housing (#150, downwardly facing edges near #153) contact each other and act as a stop.

In regards to the middle of page 6, the guide structures of both the Schneider and Keeler et al. references are indeed able to direct the knee contact plate along a "generally linear path", as set forth in the prior art rejection above. This feature of the claims is extremely broad and is not positively recited. Thus, it can be read upon in many ways, and the prior art only has to have the ability to perform in this manner.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura B. Rosenberg whose telephone number is (571) 272-6674. The examiner can normally be reached on Monday-Friday 7:00am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached on (571) 272-6669. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/666,247

Art Unit: 3616

Page 7

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura B Rosenberg Patent Examiner Art Unit 3616

LBR

PAUL N. DICKSON
SUPERVISORY PATENT EXAMINER

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